# Applied Mathematics

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| **Year and Campus:** | 2016 |
| **Coordinator:** | Dr Lawrence Reeves |
| **Contact:** | **lreeves@unimelb.edu.au (mailto:lreeves@unimelb.edu.au)** |
| **Overview:** | The Graduate Certificate allows students who have completed an undergraduate degree to refocus or expand their body of knowledge by completing the requirement of one of the undergraduate majors (or equivalent) in the Bachelor of Science not already completed. The Graduate Certificate provides a pathway to the Master of Science Streams. |
| **Learning Outcomes:** | Students who complete the Graduate Certificate should: <ul><li># Demonstrate an independent approach to knowledge that uses rigorous methods of inquiry and appropriate theories and methodologies that are applied with intellectual honesty and a respect for ethical values;</li><li># Apply critical and analytical skills and methods to the identification and resolution of problems;</li><li># Act as informed and critically discriminating participants within the community of scholars, as citizens and in the work force;</li><li># Communicate effectively;</li><li># Commit to continuous learning;</li><li># Be proficient in the use of appropriate modern technologies, such as the computer and other information.</li></ul> |
| **Structure & Available Subjects:** | Completion of 62.5 points of study <ul><li># 50 points of study at level 3</li><li># 12.5 points of study at level 9</li></ul> |
| **Subject Options:** | *Subject prerequisites:* For stream specific requirements please **click here (http://science.unimelb.edu.au/available-stream-requirements%20)** . <br><br> **Level 3** <br> Both of: |

| Subject | Study Period Commencement: | Credit Points: |
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| MAST30021 Complex Analysis | Semester 1, Semester 2 | 12.50 |
| MAST30028 Numerical and Symbolic Mathematics | Semester 2 | 12.50 |

Plus at least one of:

| Subject | Study Period Commencement: | Credit Points: |
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| MAST30001 Stochastic Modelling | Semester 2 | 12.50 |
| MAST30030 Applied Mathematical Modelling | Semester 1 | 12.50 |
| MAST30031 Methods of Mathematical Physics | Semester 2 | 12.50 |

Plus (if required as a fourth subject) any other third year level subject offered by the Department of Mathematics and Statistics

**Level 9**

Plus one level 9 subject selected from listed discipline subjects in the **Master of Science (Mathematics and Statistics) (../../view/current/mc-scimat)** program

| **Links to further information:** | http://graduate.science.unimelb.edu.au |
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| **Related Course(s):** | Graduate Certificate in Science |